

Serial No. 09/762,396

ANDERLIK et al.

PF 0000049256

A P P E N D I X I:

THE LISTING OF CLAIMS:

1. (currently amended) A process for preparing odorant polymers or plastics, which comprises mixing a comminuted or fine-particle first polymer material with an odorant, allowing the first polymer material to absorb the odorant into the polymer's network and thereby swell the first polymer material with the odorant, and subsequently mixing the swollen first polymer material with a second polymer material, and wherein the first polymer material is non-macroporous and is selected from particulate cross-linked plastics which have rubber properties, and the first polymer material differs from the second polymer material and has a glass transition temperature T_g of $\leq -10^\circ\text{C}$, which is below the glass transition temperature of the second polymer material.
2. (original) A process as claimed in claim 1, wherein the odorant used comprises an odorant oil.
3. (previously presented) A process as claimed in claim 1, wherein the odorant used comprises pheromons and/or ecomones.
4. (previously presented) A process as claimed in claim 1, wherein the first polymer material is mixed and allowed to swell with the odorant in a closed container.
5. (currently amended) A process as claimed in claim 1, wherein the first polymer material in the form of a powder is mixed with the odorant, allowed to swell, and then further processed with the second polymer material in ground, powder ~~or~~ or pellet form under high pressure and at about room temperature, and with heating to a temperature which is below the glass transition temperature of the second polymer material, or with heating to a temperature which is above the glass transition temperature of either the first polymer material or of the second polymer material.
6. (previously presented) A process as claimed in claim 1, wherein the first polymer material used comprises graft rubber.
7. (currently amended) A process as claimed in claim 6, wherein the ~~first polymer material and the~~ second polymer material ~~are~~ is se-

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lected from the group consisting of polylactic acid, polyurethanes, polyamides, polyesters, polyesteramides, and polybutylene terephthalates, and further consisting of polymers, copolymers, block copolymers, triblock copolymers and graft copolymers of monomers selected from the group consisting of styrene, butadiene, acrylonitrile, (meth)acrylate, and acrylic esters, and further consisting of mixtures of said materials with polycarbonates.

8. (previously presented) An odorant polymer or an odorant plastic obtained by the process as claimed in claim 1.
9. (original) An odorant polymer or an odorant plastic as claimed in claim 8 in pellet form.
10. (previously presented) The process of applying the odorant polymer or plastic of claim 8 to an article.
11. (previously presented) A molding composition which comprises an odorant polymer or an odorant plastic as claimed in claim 8.
12. (previously presented) The process of applying the composition of claim 11 to an article.
13. (previously presented) An article which comprises an odorant polymer or an odorant plastic as claimed in claim 8.
14. (original) An article as claimed in claim 13 in the form of a plastic molding or a semifinished product.
17. (previously presented) A process for preparing an odorant polymer or plastic, which comprises
 - mixing a comminuted or fine-particle first polymer material with an odorant,
 - swelling the first polymer material with the odorant and thereby absorbing the odorant in the first polymer material to form a polymer matrix or network comprising the odorant uniformly distributed and in absorbed form, and
 - subsequently mixing the swollen first polymer material with a second polymer material,and wherein
the first polymer material is selected from particulate cross-linked plastics which have rubber properties, and

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the first polymer material differs from the second polymer material and has a glass transition temperature T_g of $\leq -10^\circ\text{C}$, which is below the glass transition temperature of the second polymer material.

18. (previously presented) A process as claimed in claim 17, wherein the first polymer material and the second polymer material are selected from the group consisting of polylactic acid, polyurethanes, polyamides, polyesters, polyesteramides, and polybutylene terephthalates, and further consisting of polymers, copolymers, block copolymers, triblock copolymers and graft copolymers of monomers selected from the group consisting of styrene, butadiene, acrylonitrile, (meth)acrylate, and acrylic esters, and further consisting of mixtures of said materials with polycarbonates.
19. (previously presented) An odorant polymer or an odorant plastic obtained by the process as claimed in claim 17.
20. (previously presented) A molding composition which comprises the odorant polymer or the odorant plastic defined in claim 19.
21. (previously presented) An article which comprises the odorant polymer or the odorant plastic defined in claim 19.
22. (previously presented) The article defined in claim 21 in the form of a plastic molding or a semifinished product.

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